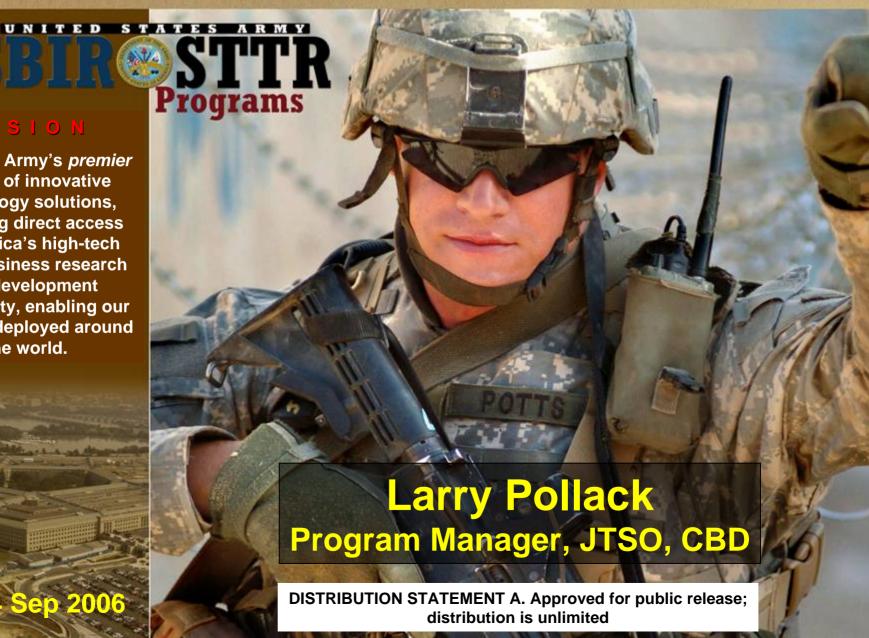
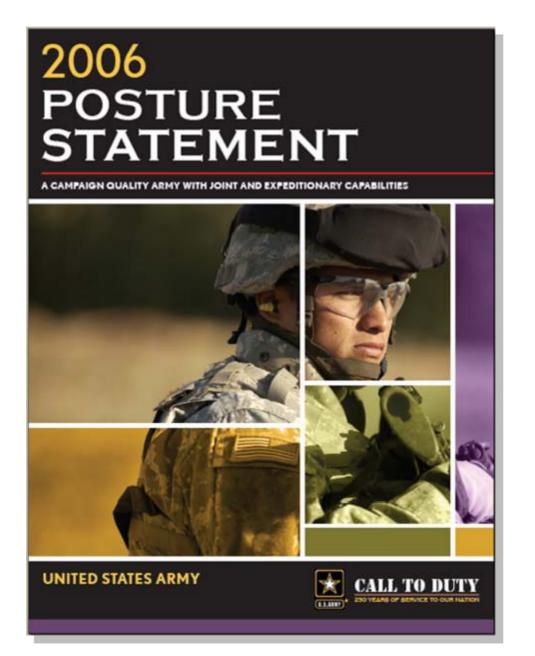
#### SMALL BUSINESS INNOVATION RESEARCH SMALL BUSINESS TECHNOLOGY TRANSFER

VISION

To be the Army's premier source of innovative technology solutions, providing direct access to America's high-tech small business research and development community, enabling our Soldiers deployed around the world.



11-14 Sep 2006



# **Call to Duty**

- ➤ Soldiers are the Army. It is the Soldier well trained, equipped, and led who serves as the ultimate expression of the capabilities the Army provides to the Joint Force and the Nation.
- The most potent weapon in the long struggle against terror will be our brave men and women in uniform.
- Those who honor and assist our Soldiers also answer the *Call to Duty*.



# Army SBIR Facts and Figures FY00-06

- 1,656 research topics...
- 21,067 proposals from industry...
- 3,408 contract awards...
- 26 participating agencies...
- Over \$1.2 billion in research...

One mission...



Mission: The Army SBIR program is designed to provide small, high-tech businesses the opportunity to propose innovative research and development solutions in response to critical Army needs.

4/4/2006



#### **Force Operating Capabilities (FOC)**

**TRADOC Pamphlet 525-66 (1 July 2005)** 

http://www.tradoc.army.mil/tpubs/pams/p525-66.htm

**Battle Command** 

**Battlespace Awareness** 

Mounted / Dismounted Maneuver

Air Maneuver

**Maneuver Sustainment** 

**Maneuver Support** 

**Protection** 

Strategic Responsiveness and Deployability

Line of Sight / Beyond Line of Sight , Non-Line of Sight Lethality

**Human Engineering** 

Training,
Leader Development
and Education

Provides focus for the Army's Science and Technology Master Plan

4/4/2006



#### **Army Science and Technology Focus**

#### **Army Posture Statement 2005**

http://www.army.mil/aps/

☐ Networked battle command and logistics systems
☐ Networked precision missiles and gun-launched munitions
☐ Improved intelligence sensors
☐ Active and passive protection systems
☐ Unmanned ground and air systems
☐ Low-cost multispectral sensors
☐ Detection and neutralization of mines and Improvised Explosive Devices (IEDs)
☐ Identification of friendly forces in combat
☐ Development of medical technology for self-diagnosis and treatment
☐ Identification of hostile fire indicators
☐ Training systems



#### Topic Development, Requirements, & Linkages



**TRADOC Gap Analysis** 

**TRADOC** 525-66 **Force Operating** Capabilities



**Army Science & Technology Master** Plan (ASTMP)



**Armv Objectives** (ATO)

**Technology** 

PEO / PM **Technology Needs** and Risk Items

SBIR **Topics Database** 

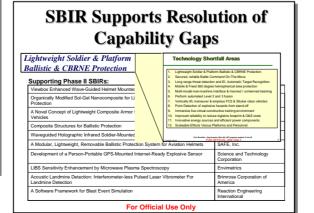
Innovative Solutions

#### Maintained ATO Linkage...

NLOS-LS Technology Two Nested Plasma Antennas and Two Stacked Plasma Antenna Arrays The Haleakala Research & Development Inc. Adaptive Bandwidth High Power RF Antenna Astron Wireless Technoligies, Inc On-Demand Gas Generator with Real-Time, Open Loop Control System for Gel Propulsion Protective Coating for ZnS Windows & Domes In-situ Smart Corrosion Sensors for Army Missile Aginova Inc Magnetic Anti-tamper Sensor Consolidation of Nanograin Ceramics

**SBIR** directly linked...

...supports **ATO** success





# **Army SBIR Process**

#### **Topics**

#### Phase I



**DoD Solicitation SBIR YY.2 May thru July** 





Feasibility Study \$70K, 6 Months

\$50K Option (Gap Funding)

~10% of proposals submitted selected

Phase I + Phase II + Phase II Plus = \$1.35 Million





Prototype
Development
\$730K, 2 Years

\*\*Phase II Plus - \$500K matching funds, 1 Year

~50% <u>invited</u> proposals selected



**Phase III** 



Commercialization
Transition to
Federal Govt
or Private
Program

**No SBIR Funds** 

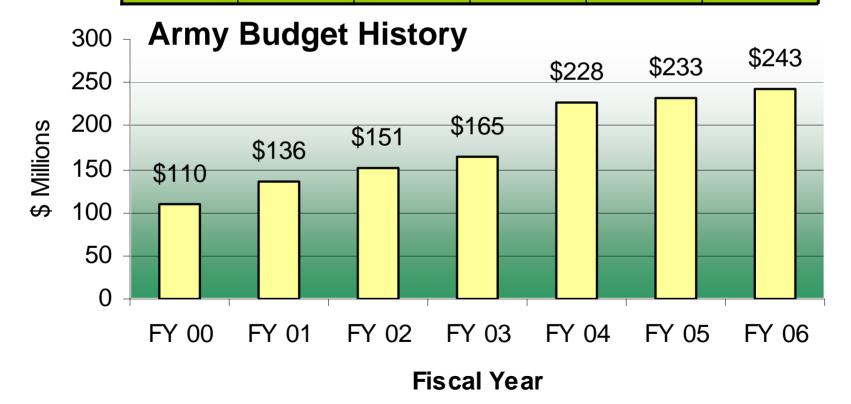


### **Army SBIR Award History**

**Phase I Awards** 

**Phase II Awards** 

<b>FY01</b>	FY02	FY03	FY04	FY05	<b>FY06</b>
317	354	352	356	371	TBD
151	180	222	237	259	221





#### **Army SBIR Participating Organizations**















**Army Research Institute (ARI)** 

**Army Research Lab (ARL)** 

**Army Test and Evaluation Center (ATEC)** 

**Aviation and Missile RD&E Center (AMRDEC)** 

**Communications-Electronics RD&E Center (CERDEC)** 

**Edgewood Chemical Biological Center (ECBC)** 

**Engineer Research and Development Center (ERDC)** 

**Medical Research and Materiel Command (MRMC)** 

**Natick Soldier Center (NSC)** 

Simulation and Training Technology Center (STTC)

**Tank-Automotive RD&E Center (TARDEC)** 

**Space & Missile Defense Command (SMDC)** 

**Army Program Executive Offices (PEOs)** 



















# Army SBIR = Improved **Operational Capability**

#### **Cockpit Air Bag System**

Simula, Inc. Phoenix, AZ

- Over \$42M in DoD sales

UH-60A/L production contract; OH-58D completed qualification; AH-64D & CH-47D study programs



#### **Innovative Communications** and Electronic Warfare Antenna

**FIRST RF Corporation** Boulder, CO

- \$247K in DoD R&D
- Over \$70M in DoD Sales

Over 12,500 units delivered through March 06



#### FIDO Lightweight **Integrated Explosives Detection System**

Nomadics – Stillwater, OK -Over \$10M in non-SBIR investment

Fielded on 8 Nov 2005 in Baghdad, Iraq





# Army SBIR Quality Awards Program

- □ Recognizes Top Phase II Performers each year
- ☐ Phase II projects ending within year eligible for consideration may be nominated by sponsoring organization
- ☐ Selection board of Government & Industry Scientists and Businessmen
- ☐ Winners presented award in ceremony at Pentagon, hosted by a senior Army official
- ☐ Quality Award projects featured in annual Army SBIR Quality Awards brochure







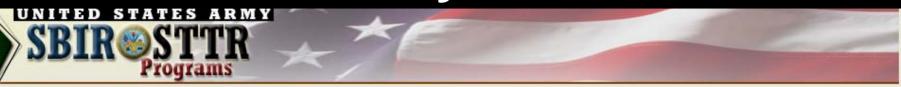
# Small Business Technology Transfer (STTR)

☐ Encourages collaboration between small business and:								
☐ Universities								
☐ Non-Profit Research Institutions								
☐ Federally Funded Research & Development Centers (FFRDCs)								
☐ Requires research institution partners (e.g., universities)								
☐ 40% minimum small business concerns (for-profit)								
☐ 30% minimum U.S. research institution (non-profit)								
□ \$29.2M in FY06 Funding								
☐ Phase I \$100K, Phase II \$750K								
☐ No Phase I Option		Solicitation Internet Release	Proposals					
☐ No Phase II Plus			Accepted Starting	Proposal Deadline	Contracts Awarded			
	STTR FYxx	Approx. Feb. 1	Approx. Mar. 15	Approx. April 15	Approx. Aug. 15			

http://www.armysbir.com/sttr/sttr.htm

4/4/2006

# www.armysbir.com



SMALL BUSINESS INNOVATION RESEARCH
SMALL BUSINESS TECHNOLOGY TRANSFER

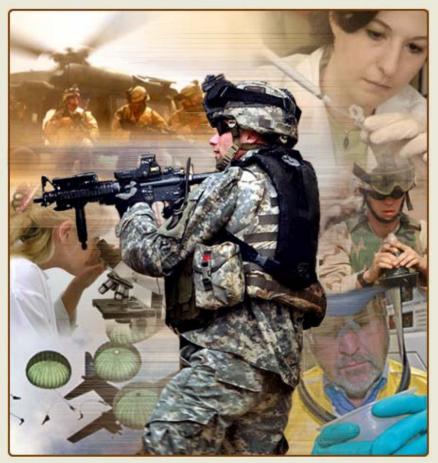
SBIR

STTR

**CBD SBIR** 

Success Stories

Small Business Portal



#### MISSION

The Small Business Innovation Research (SBIR) and Small Business Technology Transfer Program (STTR) programs allow small, high-tech U.S. businesses (less than 500 employees) and academia the opportunity to provide innovative research and development solutions in response to critical Army needs. By capturing the tremendous and agile talents of the U.S. small business community, the SBIR and STTR Programs benefit the Department of Defense (DoD), the private sector, and our national economy.

This portal provides all the information necessary to participate in these programs.





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# **Additional Information / Questions**

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